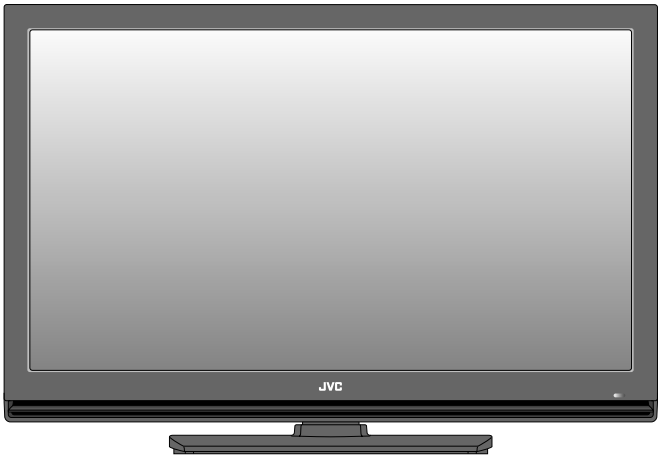
JVC

LT-42R90BU
LT-42DR9BU

WIDE LCD PANEL TV
16:9 LCD TV
TELEVISEUR A ECRAN LCD PANORAMIQUE
BREEDBEELD LCD TV
TELEVISOR CON PANEL LCD PANORÁMICO
TV LCD WIDESCREEN
NESTEKIDENÄYTÖLLÄ VARUSTETTU LAAJAKUVATELEVISIO
WIDE-SCREEN LCD-TV
BREDBILDS LCD-TV

INSTRUCTIONS
BEDIENUNGSANLEITUNG
MANUEL D'INSTRUCTIONS
GEBRUIKSAANWIJZING
MANUAL DE INSTRUCCIONES
ISTRUZIONI
KÄYTTÖOHJE
INSTRUKTIONSBOG
BRUKSANVISNING



HD ready 1080p

HDMI HIGH-DEFINITION MULTIMEDIA INTERFACE

MAXX Bass

DynaPiX HD

ENGLISH
DEUTSCH
FRANÇAIS
NEDERLANDS
CASTELLANO
ITALIANO
SUOMI
DANSK
SVENSKA

GGT0202-001A-U

INSTRUCTIONS

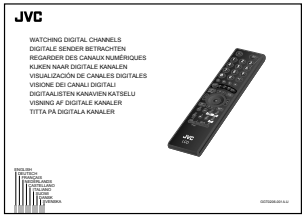
LT-42R90BU (R90)

- R90 does not support digital channels (Digital terrestrial broadcasting (DVB-T)). To watch digital channels, a Digital terrestrial broadcasting (DVB-T) compatible tuner is required.

LT-42DR9BU (DR9)

DVB
Digital Video Broadcasting

Trade Mark of the DVB Digital Video Broadcasting Project (1991 to 1996) Number : 5227



For DR9, a separate manual “WATCHING DIGITAL CHANNELS” is provided.
Please refer to it when watching digital channels.

Before reading the separate manual
Read this manual’s “Warning” section (P. 2), and understand how to use the TV safely. After that follow the instructions in the “Getting started” section (P. 8 - 12, P. 14 - 17) to connect the aerial and other external devices to the TV, and configure the settings for the TV.

Information for Users on Disposal of Old Equipment

ENGLISH

Attention:
This symbol is only valid in the European Union.

[European Union]
This symbol indicates that the electrical and electronic equipment should not be disposed as general household waste at its end-of-life. Instead, the product should be handed over to the applicable collection point for the recycling of electrical and electronic equipment for proper treatment, recovery and recycling in accordance with your national legislation.

By disposing of this product correctly, you will help to conserve natural resources and will help prevent potential negative effects on the environment and human health which could otherwise be caused by inappropriate waste handling of this product. For more information about collection point and recycling of this product, please contact your local municipal office, your household waste disposal service or the shop where you purchased the product.

Penalties may be applicable for incorrect disposal of this waste, in accordance with national legislation.

(Business users)
If you wish to dispose of this product, please visit our web page www.jvc-europe.com to obtain information about the take-back of the product.

[Other Countries outside the European Union]
If you wish to dispose of this product, please do so in accordance with applicable national legislation or other rules in your country for the treatment of old electrical and electronic equipment.

Dear Customer,

This apparatus is in conformance with the valid European directives and standards regarding electromagnetic compatibility and electrical safety.

European representative of Victor Company of Japan, Limited is:
JVC Technology Centre Europe GmbH
Company name changed in:
JVC Technical Services Europe GmbH
Postfach 10 05 52
61145 Friedberg
Germany

Warning

Please follow all the guidelines below

Follow this manual regarding setup!
- Connect only to a 220 - 240 V, 50 Hz AC outlet.

Do not allow the TV to fall!
- Do not rest your elbows on, or allow children to hang from the TV.
  There is a risk that the TV will fall and cause injuries.

On disposal of the TV!
- Follow the instruction in "Information for Users on Disposal of Old Equipment" (P. 1).

Never place anything on the TV!
- Placing liquids, naked flames, cloths, paper, etc. on the TV may cause a fire.

Never expose to rain or moisture!
- To prevent fire or electric shock, never allow liquids to enter the unit.

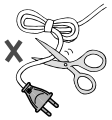
Never insert objects into the cabinet openings!
- It may cause a fatal electric shock. Take care when children are near.

Never obstruct the ventilation holes!
- It may cause overheating or a fire.

Make enough room for inserting and removing the power plug!

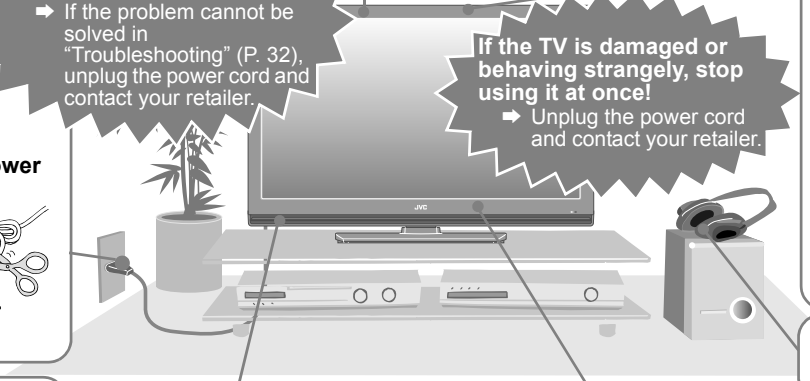
Place the TV as close to the outlet as possible!
- Even if the TV's power lamp is unlit, the main power supply is not cut off unless the power cord is unplugged. The main power supply for this TV is controlled by inserting or removing the power plug.

Never cut or damage the power cord!
- If the power plug is not the right shape, or the power cord is not long enough, use an appropriate plug adapter or extension cable. (Consult your retailer.)



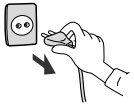
Never try to repair the TV yourself!
➡ If the problem cannot be solved in "Troubleshooting" (P. 32), unplug the power cord and contact your retailer.

If the TV is damaged or behaving strangely, stop using it at once!
➡ Unplug the power cord and contact your retailer.



Never listen to headphones at high volume!
- It may damage your hearing.

Unplug the power cord when going out!
- The power buttons on the remote control and the TV unit cannot completely turn off the TV. (Make appropriate arrangements for bedridden people.)



When attaching the TV to the wall, use the optional JVC wall mounting unit!
- Consult a qualified technician.
- See the included manual on mounting procedures.
- JVC assumes no responsibility for damage due to improper mounting.

Take care when handling the glossy finish!
- For more details, see P. 7.

Handle LCD panel with care!
- Use a soft, dry cloth when cleaning.

Never dismantle the rear panel!
- It may cause an electric shock.

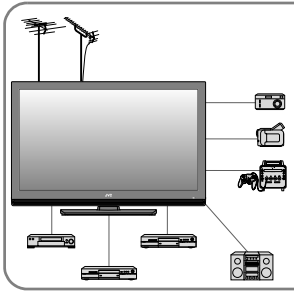
Hold the TV so as not to scratch the screen!
- Do not touch the screen when carrying the TV.

Do not carry the TV on your own!
- In order to prevent accidents, ensure that the TV is carried by two or more people.

■ For more details on installation, usage and safety ➡ Consult your retailer

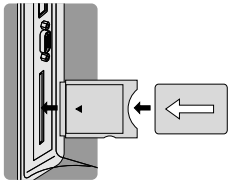
To set up your TV

Please read “Getting started” (P. 8 - 17).
The main descriptions are in the following pages.



Connecting the external devices and aerial PAGE 9 PAGE 12

Choosing a video connection PAGE 10



Watch pay-TV digital channels (DR9 only) PAGE 8

(R90) (DR9)

Initial settings PAGE 13 PAGE 14

Editing analogue channels PAGE 16

- If you want to edit the digital channels, refer to “Edit PR (Edit PR List)” (P. 9) on the separate manual “WATCHING DIGITAL CHANNELS”. (DR9 only)

Contents

Analogue terrestrial broadcasting (VHF / UHF) and analogue cable TV ➡ Analogue channels
Digital terrestrial broadcasting (DVB-T) ➡ Digital channels (DR9 only)

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DR9 only: WATCHING DIGITAL CHANNELS (Separate manual)

- Watching digital channels 2
- Using EPG 6
- Customising your TV 8
- Troubleshooting 16
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Remote control

The functions of the remote control buttons are explained as follows.
This remote control can be configured to operate up to four different devices simply by changing the remote code.
“Configuring your remote control” (P. 24)

Mute.

Turn on / off (standby) the TV.

Enter channel / page number.

Channel information. “Watching analogue channels” (P. 19)

Watch video etc. “Watching videos / DVDs” (P. 21)

Colour buttons:
Select a page when viewing teletext.
Operate functions in menus.

Switch between “TV / STB / DVD / AUDIO”. (P. 24)

Return to TV. (R90 only)

Switch between digital / analogue channels. (DR9 only)

Display on-screen menu. “Customising your TV” (P. 26)

Select and confirm settings in menus.

Change channel / page.

Volume control.

View teletext. “Viewing teletext” (P. 20)

To the previous channel.

Hold the current page when viewing teletext. (P. 21)

R90

F.T/L Display your favourite list when viewing teletext. (P. 20)

Display hidden information when viewing teletext. (P. 21)

TV/RADIO Display hidden information when viewing teletext. (P. 21)
Switch between TV / Radio when watching digital channels. (DR9 only)

Enlarge the text when viewing teletext. (P. 21)

GUIDE Enlarge the text when viewing teletext. (P. 21)
Display the Electronic Programme Guide when watching digital channels. (DR9 only)

Choose a favourite channel when viewing analogue channels. (P. 19)
Display sub-pages when viewing teletext. (P. 20)

Save your favourite page when viewing teletext. (P. 20)

Switch briefly from teletext to TV when viewing teletext. (P. 21)

Display the index page when viewing teletext. (P. 21)

Display the index page when viewing teletext. (P. 21)
View subtitles when watching digital channels. (DR9 only)

ZOOM Change the aspect ratio. (P. 22)

Turn on “3D Cinema Sound”. (P. 22)

I/II Change the sound mode or language. (P. 23)
Change the audio language when viewing digital channels. (DR9 only)

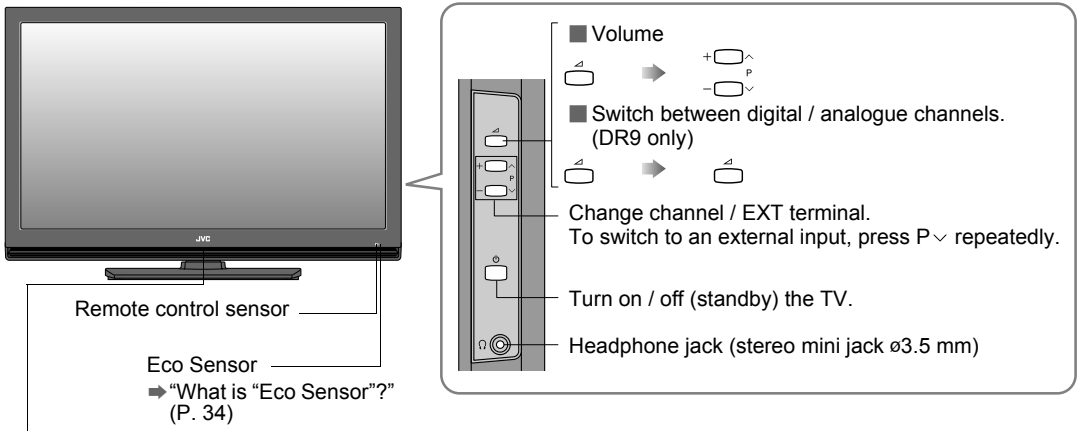
Set the sleep timer. (P. 23)

Note

- For buttons that can be used to operate other devices, refer to “Configuring your remote control” (P. 24).
- For more details on using the remote control when viewing digital channels, refer to the separate manual “WATCHING DIGITAL CHANNELS”. (DR9 only)

DR9

Names and functions of parts


■ Volume
■ Switch between digital / analogue channels.
(DR9 only)
Change channel / EXT terminal.
To switch to an external input, press P∨ repeatedly.
Turn on / off (standby) the TV.
Headphone jack (stereo mini jack ø3.5 mm)
Remote control sensor
Eco Sensor
➡"What is "Eco Sensor"?" (P. 34)

Power lamp

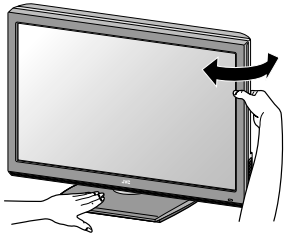
ON: Lit
OFF: Unlit

- When "Power Lamp" is set to "Off", the Power lamp will not light up.
  ➡ "Power Lamp" (P. 29)
- The power lamp will blink before the "Record" timer starts to function. When the "Record" timer is in progress, the power lamp lights even though the TV is off (standby). For details, refer to "Timer" (P. 11) on the separate manual "WATCHING DIGITAL CHANNELS". (DR9 only)

Note

- Peel off the protection films pasted on the glossy finish of the TV after the TV has been placed properly. (P. 7)

Change the direction of TV

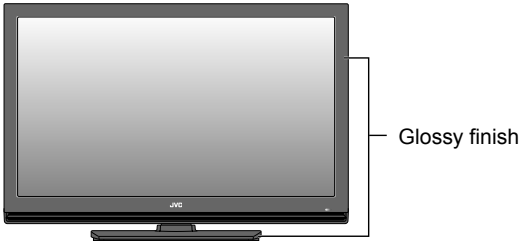


Handling the glossy finish of the TV

Be careful when handling the glossy finish of the TV

The glossy finish of the TV scratches easily.

- Protection films have been pasted onto the glossy finish of the TV to prevent scratches. Peel off the films after the TV has been placed properly.
- If the glossy finish gets dirty, clear the dust off the glossy finish first. Then wipe softly with the cleaning cloth provided. If you do not clear the dust first, or you wipe the glossy finish too hard, or a cleaning cloth other than the one provided is used, the glossy finish may be scratched.



Getting started

Please read P. 9 - 17 of this manual to set up your TV.

Check accessories

Remote control
R90: RM-C1932
DR9: RM-C1931

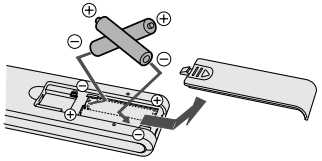
"AAA/R03" Batteries
(For confirming the TV works)

Cleaning cloth
(For details on using the cleaning cloth, see P. 7.)

WARNING:
Batteries shall not be exposed to excessive heat such as direct sunshine, fire or the like.

Insert the batteries

Use two "AAA/R03" dry cell batteries. Insert the batteries from the ⊖ end, making sure the ⊕ and ⊖ polarities are correct.



Install your TV

■ Power requirements

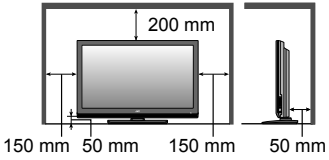
- Connect the power cord only to a 220 - 240 V, 50 Hz AC outlet.

■ When attaching the TV to the wall, use the optional JVC wall mounting unit

- Consult a qualified technician.
- See the included manual on mounting procedures.
- JVC assumes no responsibility for damage due to improper mounting.
- Mounting holes for wall mounting unit:
  M5 x 4, 400 mm x 200 mm
  Depth of screw hole is 13 mm from the surface of the TV.

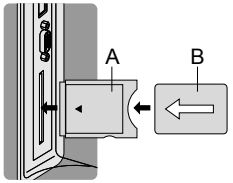
■ Installation requirements

- To avoid overheating, ensure the unit has ample room.



Watch pay-TV digital channels (DR9 only)

Subscribe to a broadcasting company beforehand. A Smart Card (B) will be sent by the broadcasting company after subscribing to it. It may be necessary for you to purchase a Conditional Access Module (A) in addition to the Smart Card. Consult your broadcasting company or retailer.



① Unplug the power cord
② Insert "B" into "A".
③ Insert "A".
④ Plug the power cord, and turn the power on.
⑤ Perform necessary settings using "Common Interface".

➡ WATCHING DIGITAL CHANNELS **"Common Interface" (P. 13)**

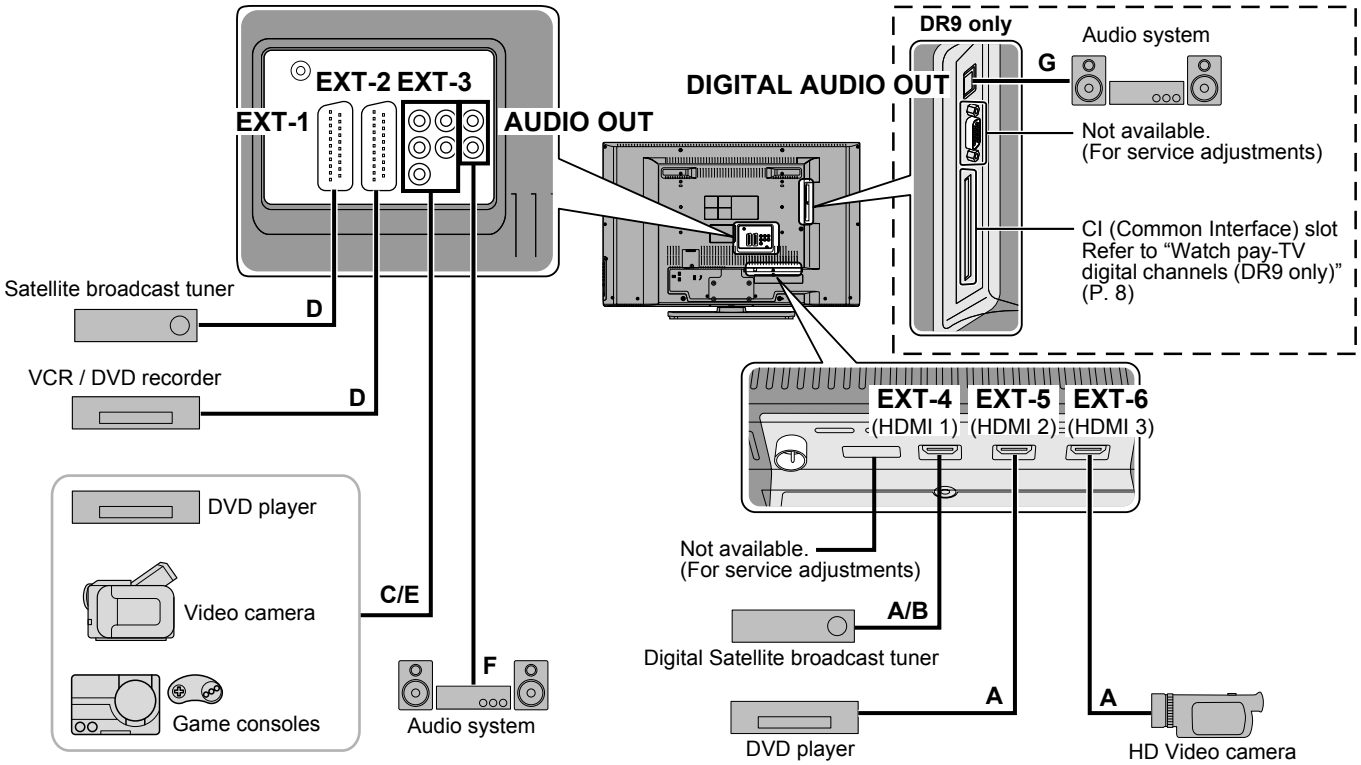
- Pay-TV analogue channels cannot be watched.

Connecting your external devices

Make sure all the devices and the TV are turned off.
The names of the devices shown in the following illustration are examples.
The alphabets A, B, C, D, E, F and G indicate the type of connections. Refer to P. 10 - 11 to find the best connections that are possible with your devices.

Note

- Please read the user manuals of each device before setting up.
- Connecting cables are not supplied with this TV.

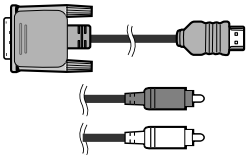
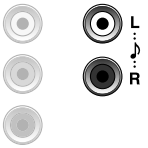
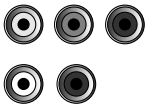
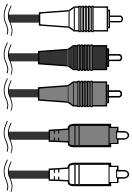
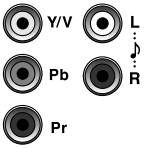


Choose your best connection

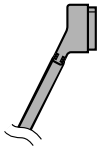
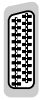
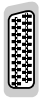
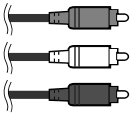
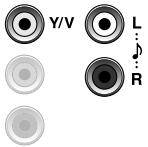
You can connect your TV to other devices in seven different ways. Check your devices and choose the best connection. In addition, please read "Notes" before using.

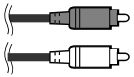
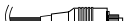
Please do not change any of the menu settings before completing the "Initial settings" (P. 13). Otherwise, the "Initial settings" will not start automatically.

Picture quality: Best ↑ Better

	Other devices	Connecting cables	Connect to your TV	Available signals	Notes
A	HDMI	HDMI cable	EXT-4 EXT-5 EXT-6	Input ● HDMI (digital) SD: 576i (625i), 480i (525i) ED: 576p (625p), 480p (525p) HD: 1080i (1125i), 1080p (1125p) / 24Hz, 1080p (1125p) / 50Hz, 1080p (1125p) / 60Hz, 720p (750p) Audio L / R	If there is no sound, change the "HDMI-1 Audio Setting" (P. 30).
B	DVI Audio	 DVI-HDMI cable, Audio cable	EXT-4  EXT-3: L and R jacks	Input ● DVI (digital) SD: 576i (625i), 480i (525i) ED: 576p (625p), 480p (525p) HD: 1080i (1125i), 1080p (1125p) / 24Hz, 1080p (1125p) / 50Hz, 1080p (1125p) / 60Hz, 720p (750p) ● Audio L / R (analogue)	If there is no sound, change the "HDMI-1 Audio Setting" (P. 30).
C	 Component video and Audio	 Component video cable, Audio cable	 EXT-3	Input ● Component (analogue) SD: 576i (625i), 480i (525i) ED: 576p (625p), 480p (525p) HD: 1080i (1125i), 1080p (1125p) / 50Hz, 1080p (1125p) / 60Hz, 720p (750p) ● Audio L / R (analogue)	Change the EXT-3 setting from " " (composite) to " " (component). (P. 31)

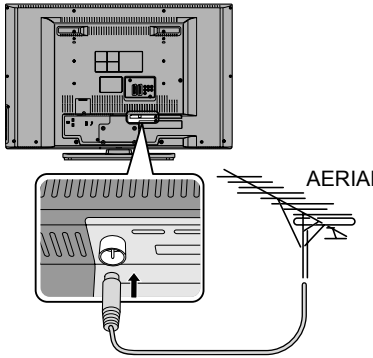
Good

D	SCART (Euroconnector)	 SCART cable	 EXT-1	Input ● Composite video (analogue) ● RGB input (analogue) ● Audio L / R (analogue) Output ● Analogue TV out (composite video and audio L/R) (analogue)	
			 EXT-2	Input ● Composite video (analogue) ● S-Video (analogue) ● Audio L / R (analogue) Output ● Dubbing out (composite video and audio L/R) (analogue)	If you want to input the S-Video signal, change the “Ext Setting”. (P. 31) Select the dubbing source in “Ext Setting”. (P. 31)
E	Video and audio	 Video and audio cable	 EXT-3: V, L, R jacks	Input ● Composite video (analogue) ● Audio L / R (analogue)	Change the EXT-3 setting from “ ” (component) to “ ” (composite). (P. 31)

	Audio system	Connecting cables	Connect to your TV	Available signals	Notes
F	Audio input	 Audio cable	AUDIO OUT	Output ● Audio L / R (analogue)	You cannot listen to the sound from a device with connection A and B.
G	Optical input	 Optical audio cable	DIGITAL AUDIO OUT (DR9 only)	Output ● Audio (digital) (16 bit linear PCM or Dolby Digital) “Dolby” and the double-D symbol are trademarks of Dolby Laboratories.	The sound from the analogue channels and the external devices cannot be output. Please refer to the ““Dolby Digital” output from the DIGITAL AUDIO OUT terminal” (P. 18) on the separate manual “WATCHING DIGITAL CHANNELS”.

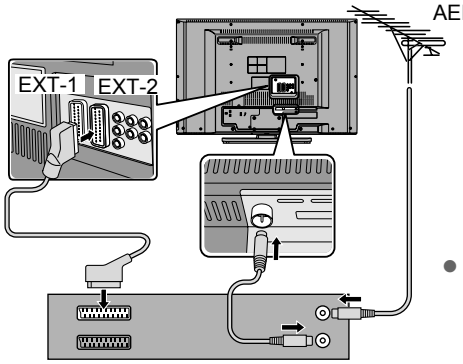
Connecting the aerial

Connect the aerial



- After all the connections have been made, insert the plug into an AC outlet.

Connect a VCR / DVD recorder



- After all the connections have been made, insert the plug into an AC outlet.

Power supply for the indoor aerial (DR9 only)

When using an indoor aerial which requires external power, set “Antenna Power” to “On” in step 3 of “Initial settings” (P. 14). The TV will supply DC 5V, 50mA (max) from the aerial socket through the cable to the aerial.

- Supplying power to outdoor and indoor aerials which does not require external power, may cause damage to the aerial. If you are uncertain whether the aerial needs external power, select “Off”.
- Connect the aerial directly to the TV. When a recording device is connected between the aerial and the TV, power cannot be supplied to the aerial.
- Power is supplied to the aerial only when the TV is on.
- You can change the “Antenna Power” setting later.
  For details, refer to “Antenna Power” (P. 13) on the separate manual “WATCHING DIGITAL CHANNELS”.

Initial settings (R90)

The initial settings will begin automatically when the TV is turned on for the very first time. Follow the on-screen instructions to perform the settings.

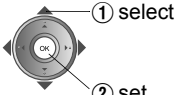
1 Turn on

- If the remote control doesn't work, confirm that the mode is set to "TV".

2 Start initial settings

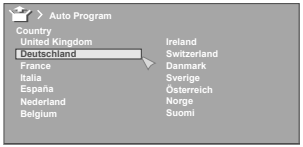
- If the JVC logo does not appear, refer to "To perform initial settings again".

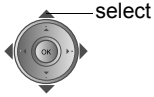
3 Select a language



■ To the previous screen ➡ BACK
■ Exit ➡ MENU
■ To perform initial settings again
Take note that performing initial settings again will cause all channel related settings to be lost. Press the "MENU" button to display the menu, then press and hold the number button "1" for more than 3 seconds to start initial settings.
■ If you wish to make changes later
➡"Language" and "Auto Program" (P. 30)

4 Select the country of installation

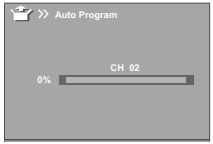




- If the country you want to select is not available, press the yellow button to check the next page.

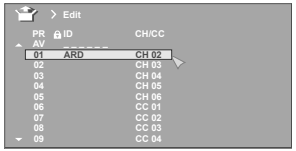
5 Automatically register channels

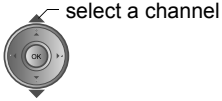
(blue)



- If "ACI Start" appears, start ACI. The cable channels will be registered quickly. For details, refer to "What is "ACI" (Automatic Channel Installation)?" (P. 34).

6 Check what was registered





■ To edit channels
➡"Editing analogue channels" (P. 16)

7 Finish

Initial settings (DR9)

The initial settings will begin automatically when the TV is turned on for the very first time. Follow the on-screen instructions to perform the settings.

1 Turn on

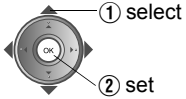
- If the remote control doesn't work, confirm that the mode is set to "TV".

2 Start initial settings

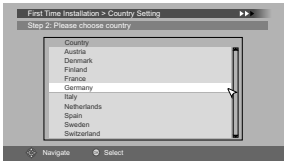
- If the JVC logo does not appear, refer to "To perform initial settings again" (P. 15).

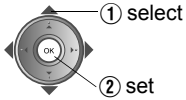
3 Set digital channels

1 Select a language for on-screen displays and DTV menus.

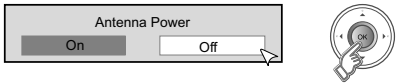


2 Select the country of installation. Receivable digital channels will differ depending on the "Country" setting.

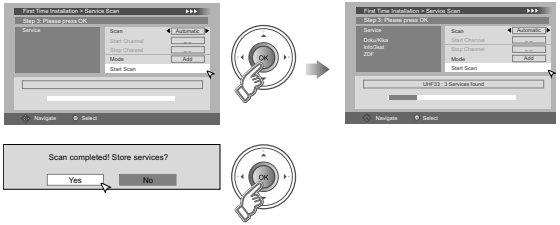




3 Confirm that the aerial power supply is set to "Off". Select "On" only when using an aerial which requires external power. (P. 12)



4 Register digital channels



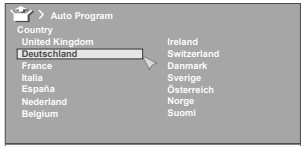
- If "No services found" appears, press the "OK" button to proceed to the next step to complete the other settings. Then, refer to "No digital channels" (P. 15).
- You can edit the digital channels after the initial settings. For details, refer to "Edit PR (Edit PR List)" (P. 9) on the separate manual "WATCHING DIGITAL CHANNELS".
- Some digital channels cannot be watched on this TV. For details, refer to page 17 on the separate manual "WATCHING DIGITAL CHANNELS".
- For information on the country and language selections available for digital channel settings, refer to page 1 on the separate manual "WATCHING DIGITAL CHANNELS".

4 Confirm the language for menus (excluding the DTV menus)

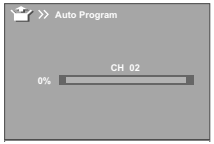
- If you want to change the language, select a language and press the “OK” button.

5 Set analogue channels

1 Register analogue channels

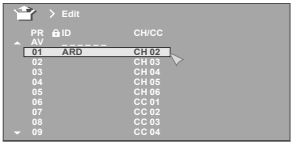


(blue)



- If you do not want to register the analogue channels (including cable TV channels), press the “MENU” button to complete the settings.
- To change the country setting, select a country and press the blue button.
- If “ACI Start” appears, start ACI. The cable channels will be registered quickly. For details, refer to “What is “ACI” (Automatic Channel Installation)?” (P. 34).

2 Check what was registered



select a channel

■ To edit channels
➡ “Editing analogue channels” (P. 16)

6 Finish

MENU

■ To the previous screen ➡ BACK
■ Exit ➡ MENU
■ To perform initial settings again
Take note that performing initial settings again will cause all channel related settings and DTV menu settings to be lost. Press the “MENU” button to display the menu, then press and hold the number button “1” for more than 3 seconds to start initial settings. If initial setting does not start, switch to the analogue channel and try again.
■ If you wish to make changes later, refer to “Factory Settings” (P. 15), “Service Scan” (P. 14) and “Menu Language” (P. 12) on the separate manual “WATCHING DIGITAL CHANNELS” for digital channel settings, or “Language” (P. 30) and “Auto Program” (P. 30) on this manual for analogue channel settings.

■ No digital channels or “Missing or weak signal” message appears

1 Check the following points
- Is the TV connected correctly to the aerial?
- Change the direction of the indoor aerial.
- Is there a digital channels transmission tower nearby?
  ➡ Turn “Attenuator” to “On” (P. 30), since the radio waves are too strong.

Note

- “Attenuator” attenuates the radio waves of analogue broadcast as well as those of digital broadcast. If some noise or snow appears when watching an analogue channel, please set “Attenuator” to “Off” temporarily.
- You can check the broadcast signal level of the channel you are watching. For details, refer to “Signal Check” (P. 15) on the separate manual “WATCHING DIGITAL CHANNELS”.

2 Set digital channels using “Factory Settings”. For details, refer to “Factory Settings” (P. 15) on the separate manual “WATCHING DIGITAL CHANNELS”.

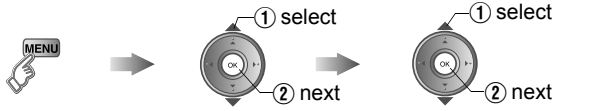
If you still cannot watch digital channels after following the steps above, there may be a problem with your aerial or its cable. Or, the signal may be too weak. ➡ Consult your retailer

Editing analogue channels

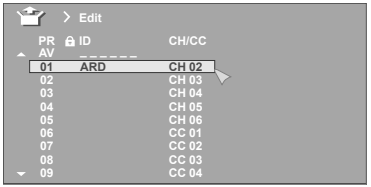
You can edit the analogue channel list.

1 Display the "Edit" menu

Display the menu bar → Select "Set Up" → Select "Edit/Manual"

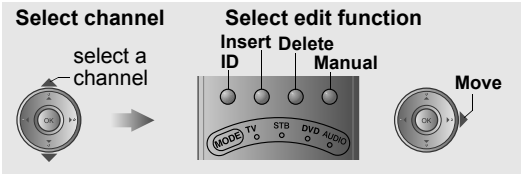


2 Edit channels



■ To the previous menu
➡ BACK

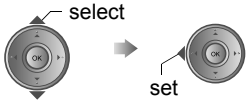
■ Exit
➡ MENU



Next

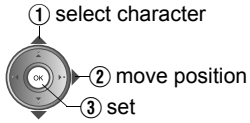
3 Finish

Move **Move a channel's position (PR)**



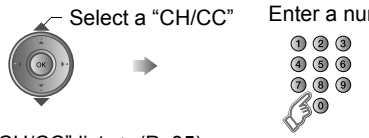
ID **Edit a channel name (ID)**

■ Naming a channel



■ When selecting a preset name from the "ID List"

Insert **Insert a new channel directly by entering the CH/CC number**



- Receives the broadcast signal.
- "CH/CC" list ➡ (P. 35)

Delete **Delete a channel**

- Pressing the button deletes the channel.

DR9 only

- If you cannot display the “Edit” menu, switch to the analogue channel.

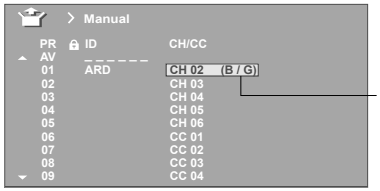
■ To edit digital channels

➡ WATCHING DIGITAL CHANNELS **P. 9**

■ To register a digital channel manually

➡ WATCHING DIGITAL CHANNELS **“Service Scan” (P. 14)**

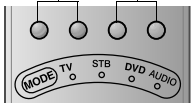
Manual Register a new channel



- If necessary, press ▶ to change the broadcasting system.
  ➡“Receivable broadcast systems” (P. 34)

Select a system

① Search a channel Fine tune



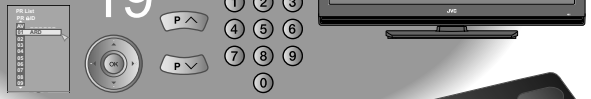
② Set

- Press the red or green button. Auto-search begins, and the nearest frequency is imported.
  ➡ Repeat the previous steps until the desired channel is displayed.

Enjoy your new TV!

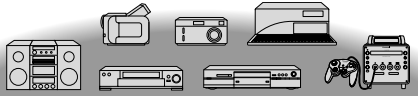
Watching analogue channels

PAGE 19



Watching videos / DVDs

PAGE 21



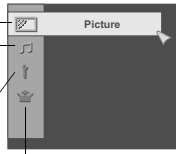
AV

Customising your TV

MENU

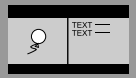
PAGE 26

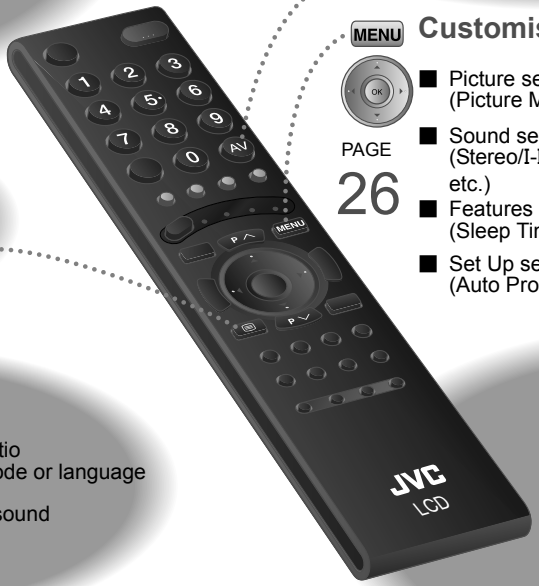
- Picture settings (Picture Mode, Features, etc.)
- Sound settings (Stereo/I-II, 3D Cinema Sound, etc.)
- Features settings (Sleep Timer / Child Lock, etc.)
- Set Up settings (Auto Program, Language, etc.)



Viewing teletext

PAGE 20





Useful functions

PAGE 22

- Change the aspect ratio
- Change the sound mode or language
- 3D Cinema Sound
- Emphasize the bass sound
- Set the sleep timer

Watching digital channels

(DR9 only)

WATCHING DIGITAL CHANNELS **P. 2 - 5**

Customising your TV

- DTV menu settings (DR9 only)

WATCHING DIGITAL CHANNELS **P. 8 - 15**

Watching analogue channels

1 Turn on

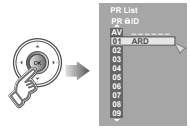
The power lamp on the TV lights.

- If the remote control doesn't work, confirm that the mode is set to "TV".
- Press again to turn the screen off and put the TV into standby mode.
- To completely turn off the TV, unplug the power plug.

2 Select a channel

■ Using PR list

PR List



① select
② view

- Close PR List

- Select a page ➡ select

■ Press a channel number

E.g.
1 : 0 ➡ 1
15 : 1 ➡ 5

■ Move up or down a channel

P ∧ up
P ∨ down

■ To the previous channel ➡ BACK

Note

- Switch between mono / stereo / bilingual broadcasting ➡ "Stereo/I-II" (P. 23)
- Using the TV buttons ➡ "Names and functions of parts" (P. 6).

DR9 only

■ Switch between digital / analogue channels ➡ TV/DTV

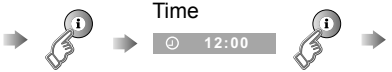
Note

- To soften the picture for daily use, change the setting in "Picture Mode" ➡ "Picture Mode" (P. 26)

Channel information and clock

Channel information

Time



- Pressing the button once displays the "PR List".
- Time is displayed only when teletext broadcasting can be received.

Register a channel to a button (Favourite channel)

While the channel is displayed

Press the number to register it on

Note

The following "Picture" and "Sound" menu settings applied to the channel will be stored in the favourite channel as well.

- Picture Mode / Digital VNR / DigiPure (P. 26 - 27)
- Surround / Bass Boost / MaxxBass (P. 28)

■ Recall the favourite channel

■ Check your favourite channels

➡ Press "i" and confirm that the channels you have registered have a 🕮 beside them.

■ Delete a favourite channel ➡ "Favourite Setting" (P. 29)

Viewing teletext

This TV can display TV broadcasts and teletext on the same channel in two windows.

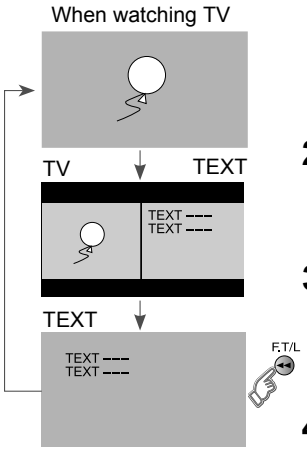
1

2 Enter a teletext page

■ Move up or down a page

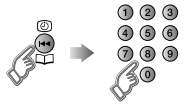
P ^ — up

P v — down



View sub-pages

Display sub-pages



■ Move up or down a page

(red) (green)

down up

■ Release ➡ Press " " again

F.T/L Bookmark your favourite page

1 Display your favourites list

2 Select a coloured button to save your page to

(red) (green) (yellow) (blue)

3 Enter the number of the page to save

4 Save

■ Exit ➡ F.T/L

■ Recall your favourite page

1 Display your favourites list

F.T/L

2 Press a coloured button

(red) (green) (yellow) (blue)

Hold the current page

Hold the current page

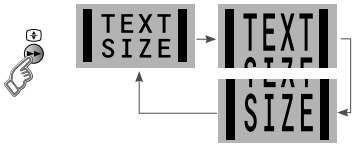
■ Release ➡ Press "⊕" again

Reveal hidden pages

Display hidden information (answers to quizzes, etc.)

Enlarge the text

Double the size of the displayed text



Switch briefly from teletext to TV

Leave the current page open, while you switch to watch TV

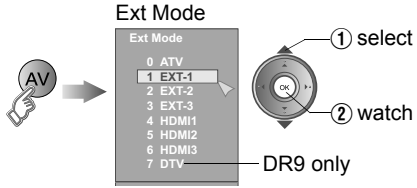
- Useful when running a page search.

To the index page

Returns to page "100" or a previously designated page

Watching videos / DVDs

1 Select the video source



E.g. For EXT-1

2 Operate the connected device and play a video

■ To return to TV channels

(R90)

- Press the "TV" button or select "ATV" from the "Ext Mode" menu.

(DR9)

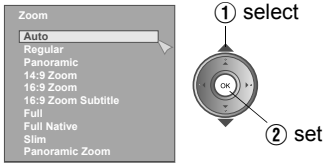
- Press the "TV/DTV" button or select "DTV" from the "Ext Mode" menu for digital channels.
- Select "ATV" from the "Ext Mode" menu for analogue channels.

ZOOM Zoom

Change the aspect ratio

1 ZOOM

2 Select the aspect ratio



3

Move the picture with ▲ or ▼ while this bar is displayed

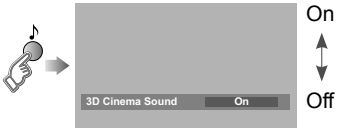
- When “Slim” is selected, a 4:3 image stretched out to 16:9 will revert back to its original aspect ratio with black bands.
- When “Panoramic Zoom” is selected, a 4:3 image with black bands will be stretched out to 16:9.
- “Full Native” ➡ “What is “Full Native”?” (P. 34)
- Using “Auto” ➡ “Auto in “Zoom”” (P. 34)

Note

- Depending on the signal formats, some zoom modes will be displayed in black and will not be selectable.
- If an image is displayed in an aspect ratio that differs from its original aspect ratio, the image will be distorted or portions of the image will be cut off.

♪ 3D Cinema Sound

Enjoy ambient sound



- You can adjust the “3D Cinema Sound” settings in the “3D Cinema Sound” menu. (P. 28)
- “3D Cinema Sound” does not work with headphones.

Other sound functions

MaxxBass (P. 28)
Compensates low frequencies to widen the frequency band.
- “MaxxBass” does not work with headphones.

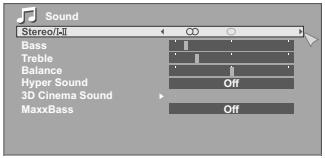
Hyper Sound (P. 28)
Ambient sound.
- “Hyper Sound” and “3D Cinema Sound” cannot be set to “On” simultaneously.
- “Hyper Sound” does not work with headphones.

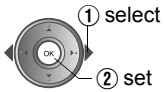
Stereo/I-II

Change the sound mode or language (analogue channels)

1

2 Select the sound mode or language





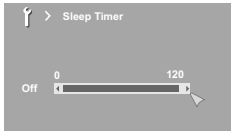
- When viewing a bilingual broadcast programme, you can select either Bilingual I (Sub I) or Bilingual II (Sub II) sound.
- If the stereo broadcast reception is poor, you can change to mono sound for clearer sound.
- This button can also be used when watching digital channels. For details, refer to “Select audio language” (P. 5) on the separate manual “WATCHING DIGITAL CHANNELS”. (DR9 only)

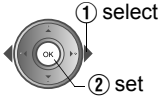
Sleep Timer

Set a time for the TV to turn off automatically

1

2 Set the time





- Cancel ➡ Set the time to “0”.
- Remaining time ➡ Display this menu again.

Other functions

Picture Mode (P. 26)
You can select a preset picture setting according to the brightness of your room or when playing video games.

Eco Sensor (P. 29)
Automatically adjust the picture contrast according to the brightness of the room.

- There are more functions available in the menus, see “Customising your TV” (P. 26 - 31).

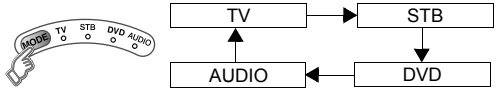
Configuring your remote control

You can configure your TV's remote control to operate your other devices.

Configure your remote control.

1 Turn on the device manually.

2 Switch the remote control mode to a mode that matches your device. Refer to the table on the right to select an appropriate mode.



- The indicator lights for 3 seconds each time the remote control is operated.

3 Find the remote control code for your device according to its brand from the "Remote control codes" list. (Refer to P. I - X at the back of this manual.)

4 Set the remote control code.

Press and hold | Enter four digit number | Release the button

5 Point the remote control at your device, press ⏻/I and confirm that your device is turned off. If your device does not respond, try entering another available code.

Note

- If your device does not respond, try all the available codes for the device's brand.
- If none of the code works, or the brand is not listed, refer to "Using the search code function" (P. 25).

MODE	Applicable devices
TV	This TV only
STB	Cable Set Top Box, Cable/PVR Combination, Satellite Set Top Box, SAT/PVR Combination
DVD	DVD, Blu-Ray DVD, HD DVD, DVD-R, Home Theater in Box, TV/DVD Combination
AUDIO	Amplifier, Receiver, Home Theater in Box

Using the search code function

This function searches through the codes one by one, beginning from the first code in the list.

1 Turn on the device manually.

2 Switch the remote control mode to a mode that matches your device.

Press MODE to select the mode.

3 Activate the search code function.

Hold down ⏻/I and BACK until the mode indicator blinks.

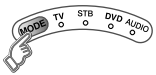
4 Point the remote control at your device and press ⏻/I. If there is no response, try the next code by pressing ▶ and press ⏻/I again. Repeat the process until your device turns off.

5 Press BACK to register the code.
The code is now set. Confirm that the mode indicator goes out.

■ If your TV's remote control still does not work even after using the search code function, use your device's own remote control. The TV's remote control is not guaranteed to work with all models, brands or operations.

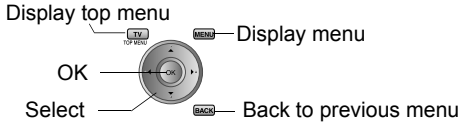
Button functions

■ **Change the remote control mode**

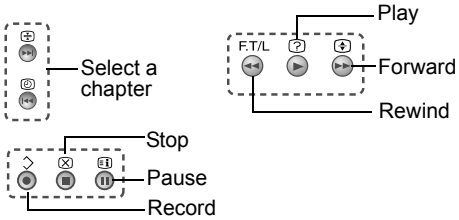


■ **Turn on/off the device**

■ **Navigate the menus**



■ **Playback / Record, etc.**



■ **Display the Electronic Programme Guide ➡ Press "GUIDE"**

■ **Display the subtitle ➡ Press "ⓘ"**

■ **Mute ➡ Press "🔇"**

■ **Volume ➡ Press "+/−"**

■ **Select a surround mode ➡ Press "♪"**

- Depending on your device, some functions may not be operable with this remote control.

Press "ⓘ" to hide the bottom area of the menu (excluding DTV menus). Press again to display it.

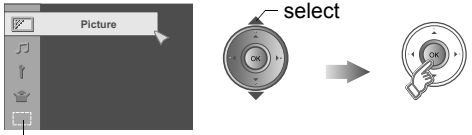
Note

- Depending on the situation (analogue channels, digital channels, video signal formats, external inputs, etc.), some items will be displayed in black colour and will not work. You will not be able to change their setting as well.

1 Display the menu bar

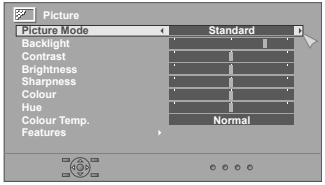
MENU

2 Display the desired menu



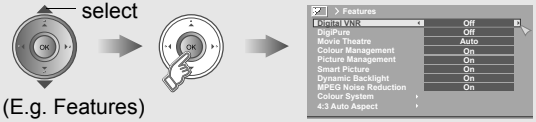
DVB (DTV menu) (DR9 only) ➡ WATCHING DIGITAL CHANNELS **P. 8 - 15**

3 Change or adjust the setting



- The menu (excluding DTV menus) disappears after one minute of inactivity.
- To the previous screen ➡ BACK

■ **To enter an item's menu**

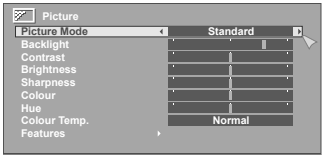


(E.g. Features)

4 Close the menu

MENU

Picture



Picture Mode

You can select a preset picture setting according to the brightness of your room or when playing video games.

Bright	: in a fairly bright room
Soft	: in a dark room
Standard	: in a room with standard brightness
Game Mode	: when playing video games

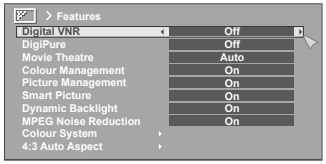
■ You can make further adjustments to the selected preset "Picture Mode" to your liking.

Backlight	Backlight brightness (Darker ⇔ Brighter)
Contrast	Contrast (Lower ⇔ Higher)
Brightness	Brightness (Darker ⇔ Brighter)
Sharpness	Sharpness (Softer ⇔ Sharper)
Colour	Colour (Lighter ⇔ Deeper)
Hue	Tint (Reddish ⇔ Greenish) (NTSC only)
Colour Temp.	Colour temperature (Warm / Normal / Cool)

■ To return to the default adjustments ➡ (blue)

Features ➡ "Features (sub menu)" (P. 27)

> Features (sub menu)



Note

- "Smart Picture" is not available when "Picture Mode" is set to "Bright" (P. 26).

Digital VNR Reduce noise

On : Maintain constant effect level **Off** : Function is turned off

Auto* : Automatically adjusts the effect level

* "Auto" can be selected only when viewing analogue channels.

DigiPure For natural-looking outlines

On : When the picture loses sharpness **Off** : Function is turned off

Movie Theatre For smooth cinema film

On : Function is always on **Off** : Function is turned off

Auto : Turn on / off the function automatically

Colour Management Maintain a natural colour balance (On / Off)

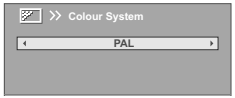
Picture Management Make it easier to view bright / dark pictures (On / Off)

Smart Picture Make it easier to view white areas (On / Off)

Dynamic Backlight Reduce the brightness of the backlight when the screen is dark (On / Off)

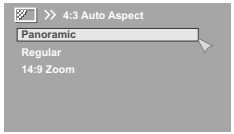
MPEG Noise Reduction Reduce MPEG video noise (On / Off)

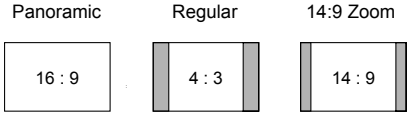
Colour System When there is no colour, change the colour system



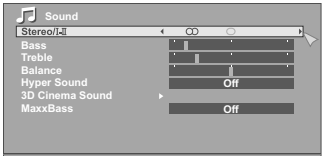
PAL : Western Europe
SECAM : Eastern Europe / France
NTSC3.58* : USA 3.58 MHz
NTSC4.43* : USA 4.43 MHz
Auto* : When watching videos etc.
* Select in video mode only.

4:3 Auto Aspect Select a default aspect ratio for Auto in "Zoom" (P. 22)





Sound



Note

- "Hyper Sound" and "3D Cinema Sound" cannot be set to "On" simultaneously.

Stereo/I-II
Select stereo, monaural or language (analogue channels)
(○: Monaural / ○○: Stereo / I: SUB1 / II: SUB2)

Bass
Low tones (Weaker ⇔ Stronger)

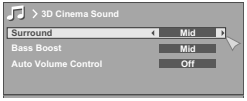
Treble
High tones (Weaker ⇔ Stronger)

Balance
Speaker balance (Left stronger ⇔ Right stronger)

Hyper Sound
Ambient sound (On / Off)

- "Hyper Sound" does not work with headphones.

3D Cinema Sound
Adjust "3D Cinema Sound" setting to your liking



Surround:
Adjust the surround level (Low / Mid / High)

Bass Boost:
Emphasize the bass sound (Low / Mid / High)

Auto Volume Control:
Maintains a uniform sound volume even if the sound becomes loud suddenly during commercial breaks etc. (On / Off)

- To turn on / off the "3D Cinema Sound", refer to "3D Cinema Sound" (P. 22).
- "3D Cinema Sound" does not work with headphones.

MaxxBass
Compensates low frequencies to widen the frequency band (Low / High / Off)

- "MaxxBass" does not work with headphones.

MaxxBass is a registered trademark of Waves Audio Ltd. in the USA, Japan and other countries.

Features

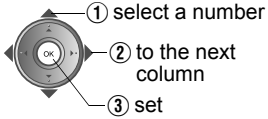
Sleep Timer Timer for turning off the TV (P. 23)

Child Lock Stop children from watching specific channels (analogue channels)

■ Lock a channel

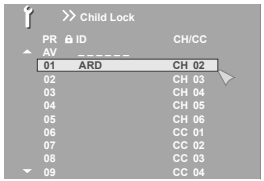
1 Display the menu

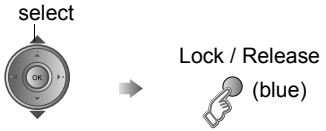
Set an "ID No."



- OK button does not work.

2 Select a channel and lock it. (: locked)





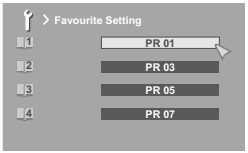
■ View a locked channel

Use the number buttons to enter the channel number.
When " " appears, press " " and enter your "ID No." with the number buttons.

- If you forget your "ID No.", perform step 1 again.

Blue Back Displays a blue screen and mutes the sound when the signal is weak or absent (On / Off) (analogue channels)

Favourite Setting Remove a channel from the Favourite channel list (analogue channels)



■ For more details

➡ "Register a channel to a button (Favourite channel)" (P. 19)

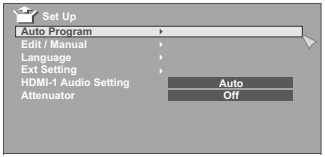
Power Lamp Lights the power lamp (P. 6) while the TV is on (On / Off)

Eco Sensor Automatically adjusts the picture contrast according to the brightness of your room (On / Off / Demo)

■ For more details

➡ "What is "Eco Sensor"?" (P. 34)

Set Up



Note

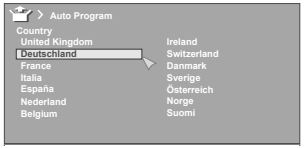
- "Attenuator" is not available for R90 and will not be displayed in the "Set Up" menu.

Auto Program

Automatically registers the channels (analogue channels)

■ To change the country, perform step 1 only.

1 Select the country of installation

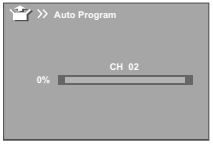


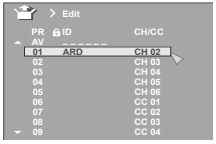
select

- For the next page (yellow)

2 Start "Auto Program"

(blue)





- If "ACI Start" appears, select and start settings.
  (This will set up cable television channels.)
  ➡"What is "ACI" (Automatic Channel Installation)?" (P. 34)

■ Edit channels
➡"Editing analogue channels" (P. 16)

Edit/Manual

➡ "Editing analogue channels" (P. 16)

Language

Select a language for the menus (excluding DTV menus)

Ext Setting

➡ "Setting external terminals" (P. 31)

HDMI-1 Audio Setting

Set to "Digital" or "Auto" for HDMI devices, or "Analogue" or "Auto" for DVI devices.
(Not available for EXT-5 and EXT-6.)

Attenuator (DR9 only)

Select "On" when digital channels are not received because of too strong radio waves (On / Off)

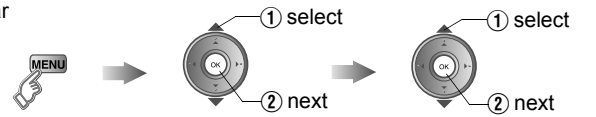
Note

- "Attenuator" attenuates the radio waves of analogue broadcast as well as those of digital broadcast. If some noise or snow appears when watching an analogue channel, please set "Attenuator" to "Off" temporarily.

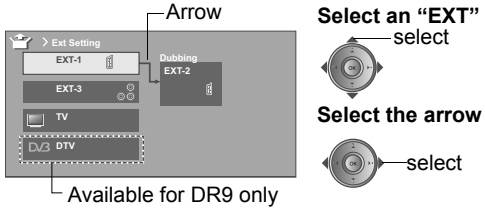
Setting external terminals

1 Display the “Ext Setting” menu

Display the menu bar → Select “Set Up” → Select “Ext Setting”



2 Select an “EXT” or arrow, and then proceed with setting



Select an “EXT”

Select the arrow

3 Finish

- HDMI terminal setting ➡ “HDMI-1 Audio Setting” (P. 30)

S-In **Switch to S-Video input**

(yellow)

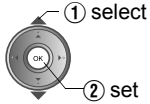
- “S” mark will appear at the selected “EXT”.
- The device selection display will change from “E2” to “S2”.

■ Cancel this mode ➡ Press “ ” (yellow) again

ID List **Edit names of connected devices**

① Show the name list ② Select a name from the list

(blue)

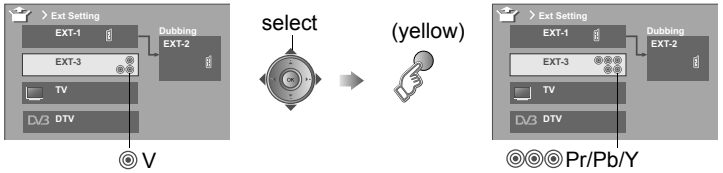


■ Clear the name ➡ Select the blank space in the list

Dubbing **Set up dubbing on “EXT-2”**

Switch between component and composite input (Pr/Pb/Y, V)

① Select “EXT-3” ② Set to component input



■ Return to composite input ➡ Press “ ” (yellow) in ② again.

Troubleshooting

■ Analogue channels

Severe noise or snow

- Is the TV connected correctly to the aerial?
- Change the direction of the aerial.
- Is the aerial or its cable damaged?
  - ➡ Consult your retailer
- Is the “Attenuator” set to “On”?
  - ➡ “Attenuator” (P. 30) (DR9 only)

Patterns, stripes or noise

- Is the aerial receiving interference from high-voltage power lines or wireless transmitters?
  - ➡ Consult your retailer
- Are connected devices too close to the TV?
  - ➡ Place a minimum distance between the aerial and the cause of interference until no interference

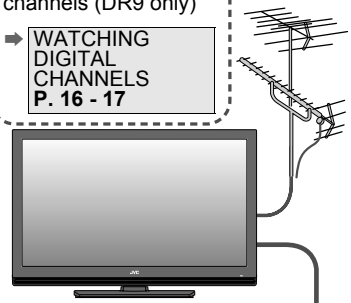
Ghosting

(Doubling of images)

- Are you receiving interference from signals reflected off mountains or buildings?
  - ➡ Adjust the direction of your aerial, or change to a good-quality directional aerial

For problems concerning digital channels (DR9 only)

➡ WATCHING DIGITAL CHANNELS **P. 16 - 17**



I can’t turn it on!

- Is the power cord connected to the AC outlet correctly?

The remote control doesn’t work!

- Are the batteries flat?
- Are you more than 7 meters away from the TV?
- Is the “MODE (TV, STB, DVD, AUDIO)” set to “TV”?
- When viewing teletext, the TV menu bar does not appear.
- Depending on the stability of the signal, there may be a time lag when changing channels.

	Problem	Actions
Basics	Remote control stops working	● Unplug TV, several minutes later plug it in again.
Screen	Aspect ratio changes unintentionally	● Press “ZOOM” to return to your settings. (P. 22)
	Black or white dots appear on the screen	● LCD panels use fine dots (“pixels”) to display images. While more than 99.99% of these pixels function properly, a very small number of pixels may not light, or may light all the time. Please understand that this is not a malfunction.
Picture	Poor picture quality	● Change the “Picture Mode” setting. (P. 26) ● Unnatural colour >>> Adjust “Colour” and “Backlight”. (P. 26) Check your “Colour System”. (P. 27) ● Noise >>> Set to the following functions. Picture Mode: Standard (P. 26) Digital VNR: On (P. 27) DigiPure: Off (P. 27) ● Dull picture >>> Set to the following functions. Picture Mode: Bright (P. 26) Digital VNR: Off (P. 27) DigiPure: On (P. 27)
	Strange picture when using an external device	● If you connected S-Video output device, check the “S-In” setting. (P. 31) ● If the top of the image is distorted, check the video signal quality itself. ● If movement appears unnatural when receiving a signal from a DVD player etc., with 576p (625p), change the output setting of the external device to 576i (625i).

	Problem	Actions
Sound	Poor sound	● Adjust “Bass” and “Treble”. (P. 28) ● If receiving a poor signal in “Stereo/I-II”, switch to “O” (monaural). (P. 23) ● Change the broadcasting system using “Manual”. (P. 17)
	No sound from the audio component	● Audio signals received from EXT-4, EXT-5 and EXT-6 cannot be sent to the AUDIO OUT terminal.
	Left and right sound coming from one side of the speaker	● If you hear both the left and right sound from one side of the speaker even after adjusting the speaker balance to one side, set “Hyper Sound” and “3D Cinema Sound” to “Off”. (P. 22, 28)
Functions	Some functions do not work	● It is not a malfunction. Depending on the situation, some function items will be displayed in black colour and will not work. (P. 26)
HDMI	Wrong screen size	● Read the user manual of the connected device and perform the following: ➡ Check if the output setting of the device is correct. ➡ Change the signal format of the device to other format.
	No picture, no sound	● Use the cable marked with HDMI logo. HDMI
	No sound	● Check if the device is compliant with HDMI. ● Set “HDMI-1 Audio Setting” to “Digital” or “Auto” for HDMI devices, or “Analogue” or “Auto” for DVI devices. (Not available for EXT-5 and EXT-6.) (P. 30)

	Problem	Actions
HDMI	Green and distorted screen	● Wait a little for the signal to stabilize when switching the signal format for an HDMI device.
Error message	“ACI Error” appears	● Press ◀ to start “ACI” again. If you still receive the “ACI Error” after numerous tries, press ▶ to cancel “ACI”.

Technical information

What is “ACI” (Automatic Channel Installation)?

Some cable companies transmit a signal called “ACI” which contains information that allows TV channels to be registered automatically on your TV.
When an ACI signal is received, “ACI Start / ACI Skip” appears in the “Auto Program” screen.

Receivable broadcast systems

Depending on the country selected during “Auto Program”, the receivable broadcast system differs.

- UNITED KINGDOM: Receive only PAL-I.
- FRANCE: Can receive SECAM-L.

To receive SECAM-L in countries other than France:

1) Change the “Country” to “France” in “Auto Program”. (P. 30)
2) Press the “BACK” button to return to the menu and enter the channel using “Insert” or “Manual”. (P. 16, 17)

Auto in “Zoom”

When “Auto” is selected in Zoom, the aspect ratio will turn to the ratio obtained from the information the TV received.

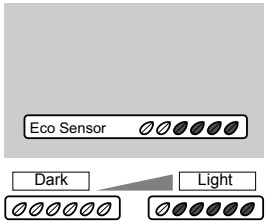
- The aspect ratio will turn to the ratio obtained from WSS (Wide Screen Identification Signal), video signal, or control signal of the external devices. Without receiving the aspect information, it will be the setting in “4:3 Auto Aspect”. (P. 27)

What is “Eco Sensor”?

You can adjust this TV so that the screen automatically adjusts to the optimum contrast of light and dark according to the brightness of your room. This function reduces eyestrain and the power consumption of this TV.

- Set “Eco Sensor” ➡ “Eco Sensor” (P. 29)
- Make sure not to block the Eco Sensor on front of the TV (P. 6)
- To fully reduce eyestrain and the power consumption of this TV. Set to the following functions.
  Eco Sensor: On or Demo (P. 29)
  Smart Picture: On (P. 27)

■ Using “Demo” in “Eco Sensor”, you can display the effect of the “Eco Sensor” on the screen



What is “Full Native”?

- With the full HD LCD display and “Full Native”, you can enjoy full native HD resolution of 1920 x 1080. It exposes flaws in the video that were hidden when viewing on “Full”.

* The illustrations are emphasised to make clear differences between “Full” and “Full Native”.

- Dark bar or noise may appear at the edges of the screen when viewing in “Full Native” for some videos. This is resulted from the signal itself, not due to TV malfunction.

DR9 only

For more information, please read the separate manual (WATCHING DIGITAL CHANNELS).

“Technical Information” (P. 17 - 18)

“CH/CC” list

To use the “Insert” function (P. 16), find the “CH/CC” number corresponding to the TV’s Channel number from this table.
When the Country setting is “France”, select a three-digit CH/CC number.

CH	Channel
CH 02/CH 202	E2, R1, IR A
CH 03/CH 203	E3, ITALY A, IR B
CH 04/CH 204	E4, ITALY B, R2, IR C
CH 05/CH 205	E5, ITALY D, R6, IR D
CH 06/CH 206	E6, ITALY E, R7, IR E
CH 07/CH 207	E7, ITALY F, R8, IR F
CH 08/CH 208	E8, R9, IR G
CH 09/CH 209	E9, ITALY G
CH 10/CH 210	E10, ITALY H, R10, IR H
CH 11/CH 211	E11, ITALY H+1, R11, IR J
CH 12/CH 212	E12, ITALY H+2, R12
CH 21/CH 221	E21, R21
CH 22/CH 222	E22, R22
CH 23/CH 223	E23, R23
CH 24/CH 224	E24, R24
CH 25/CH 225	E25, R25
CH 26/CH 226	E26, R26
CH 27/CH 227	E27, R27
CH 28/CH 228	E28, R28
CH 29/CH 229	E29, R29
CH 30/CH 230	E30, R30
CH 31/CH 231	E31, R31
CH 32/CH 232	E32, R32
CH 33/CH 233	E33, R33
CH 34/CH 234	E34, R34
CH 35/CH 235	E35, R35
CH 36/CH 236	E36, R36
CH 37/CH 237	E37, R37
CH 38/CH 238	E38, R38
CH 39/CH 239	E39, R39
CH 40/CH 240	E40, R40
CH 41/CH 241	E41, R41
CH 42/CH 242	E42, R42
CH 43/CH 243	E43, R43
CH 44/CH 244	E44, R44
CH 45/CH 245	E45, R45
CH 46/CH 246	E46, R46
CH 47/CH 247	E47, R47
CH 48/CH 248	E48, R48
CH 49/CH 249	E49, R49

CH	Channel
CH 50/CH 250	E50, R50
CH 51/CH 251	E51, R51
CH 52/CH 252	E52, R52
CH 53/CH 253	E53, R53
CH 54/CH 254	E54, R54
CH 55/CH 255	E55, R55
CH 56/CH 256	E56, R56
CH 57/CH 257	E57, R57
CH 58/CH 258	E58, R58
CH 59/CH 259	E59, R59
CH 60/CH 260	E60, R60
CH 61/CH 261	E61, R61
CH 62/CH 262	E62, R62
CH 63/CH 263	E63, R63
CH 64/CH 264	E64, R64
CH 65/CH 265	E65, R65
CH 66/CH 266	E66, R66
CH 67/CH 267	E67, R67
CH 68/CH 268	E68, R68
CH 69/CH 269	E69, R69
CH 102	F2
CH 103	F3
CH 104	F4
CH 105	F5
CH 106	F6
CH 107	F7
CH 108	F8
CH 109	F9
CH 110	F10
CH 121	F21
CH 122	F22
CH 123	F23
CH 124	F24
CH 125	F25
CH 126	F26
CH 127	F27
CH 128	F28
CH 129	F29
CH 130	F30
CH 131	F31

CH	Channel
CH 132	F32
CH 133	F33
CH 134	F34
CH 135	F35
CH 136	F36
CH 137	F37
CH 138	F38
CH 139	F39
CH 140	F40
CH 141	F41
CH 142	F42
CH 143	F43
CH 144	F44
CH 145	F45
CH 146	F46
CH 147	F47
CH 148	F48
CH 149	F49
CH 150	F50
CH 151	F51
CH 152	F52
CH 153	F53
CH 154	F54
CH 155	F55
CH 156	F56
CH 157	F57
CH 158	F58
CH 159	F59
CH 160	F60
CH 161	F61
CH 162	F62
CH 163	F63
CH 164	F64
CH 165	F65
CH 166	F66
CH 167	F67
CH 168	F68
CH 169	F69

CC	Channel
CC 01/CC 201	S1
CC 02/CC 202	S2
CC 03/CC 203	S3
CC 04/CC 204	S4
CC 05/CC 205	S5
CC 06/CC 206	S6
CC 07/CC 207	S7
CC 08/CC 208	S8
CC 09/CC 209	S9
CC 10/CC 210	S10
CC 11/CC 211	S11
CC 12/CC 212	S12
CC 13/CC 213	S13
CC 14/CC 214	S14
CC 15/CC 215	S15
CC 16/CC 216	S16
CC 17/CC 217	S17
CC 18/CC 218	S18
CC 19/CC 219	S19
CC 20/CC 220	S20
CC 21/CC 221	S21
CC 22/CC 222	S22
CC 23/CC 223	S23
CC 24/CC 224	S24
CC 25/CC 225	S25
CC 26/CC 226	S26
CC 27/CC 227	S27
CC 28/CC 228	S28
CC 29/CC 229	S29
CC 30/CC 230	S30
CC 31/CC 231	S31
CC 32/CC 232	S32
CC 33/CC 233	S33
CC 34/CC 234	S34
CC 35/CC 235	S35
CC 36/CC 236	S36
CC 37/CC 237	S37
CC 38/CC 238	S38
CC 39/CC 239	S39
CC 40/CC 240	S40

CC	Channel
CC 41/CC 241	S41
CC 75/CC 275	X
CC 76/CC 276	Y, R3
CC 77/CC 277	Z, ITALY C, R4
CC 78/CC 278	Z+1, R5

CC	Frequency (MHz)
CC 110	116-124
CC 111	124-132
CC 112	132-140
CC 113	140-148
CC 114	148-156
CC 115	156-164
CC 116	164-172
CC 123	220-228
CC 124	228-236
CC 125	236-244
CC 126	244-252
CC 127	252-260
CC 128	260-268
CC 129	268-276
CC 130	276-284
CC 131	284-292
CC 132	292-300
CC 133	300-306
CC 141	306-311
CC 142	311-319
CC 143	319-327
CC 144	327-335
CC 145	335-343
CC 146	343-351
CC 147	351-359
CC 148	359-367
CC 149	367-375
CC 150	375-383
CC 151	383-391
CC 152	391-399
CC 153	399-407
CC 154	407-415
CC 155	415-423
CC 156	423-431
CC 157	431-439
CC 158	439-447
CC 159	447-455
CC 160	455-463
CC 161	463-469

Specifications

Model	LT-42R90BU	LT-42DR9BU
Broadcasting systems	CCIR I / B / G / D / K / L (See “Receivable broadcast systems”, P. 34)	
Colour systems	TV broadcast: PAL, SECAM External input: PAL, SECAM, NTSC 3.58/4.43 MHz	
Channels and frequencies	E2-E12 / E21-E69, F2-F10 / F21-F69, IR A-IR J, ITALY A-H / H+1 / H+2, R1-R12 / R21-R69, S1-S41, X / Y / Z / Z+1 / Z+2, French cable channels (Frequency: 116-172 MHz / 220-469 MHz)	Digital: Frequency: 174-230 MHz / 470-862 MHz* Analogue: E2-E12 / E21-E69, F2-F10 / F21-F69, IR A-IR J, ITALY A-H / H+1 / H+2, R1-R12 / R21-R69, S1-S41, X / Y / Z / Z+1 / Z+2, French cable channels (Frequency: 116-172 MHz / 220-469 MHz)
Sound-multiplex systems	NICAM (I / B / G / D / K / L), A2 (B / G / D / K)	
Teletext systems	FLOF (Fastext), TOP, WST (standard system)	Digital: EBU Text Analogue: FLOF (Fastext), TOP, WST (World Standard System)
Power requirements	AC 220 V - 240 V, 50 Hz	
Audio output (Rated power output)	10 W + 10 W	
Speakers	(4 cm x 16 cm) oblique x 2	
Power consumption [standby]	210 W [0.6 W]	220W [0.6W]
Screen size (visible area size measured diagonally)	105 cm	
Connectors	HDMI x 3, RCA x 7 (component or composite video, audio L/R), Euroconnector (SCART) x 2 For details ➡ (P. 10, 11)	HDMI x 3, RCA x 7 (component or composite video, audio L/R), Euroconnector (SCART) x 2, Optical connector (digital audio output) x 1 For details ➡ (P. 10, 11)
Headphone jack	Stereo mini jack (3.5 mm in diameter) x 1	
Dimensions (W x H x D: mm) [without stand]	1014 x 698 x 296 [1014 x 646 x 109]	
Weights [without stand]	25.8 kg [22.7 kg]	26.1 kg [23.1 kg]
Accessories	(See “Check accessories”, P. 8)	

DR9

- A Conditional Access Module for watching pay-TV digital channels can be installed. (P. 8)
- DC power can be supplied to the indoor aerial. ➡ (P. 12)

* This TV can receive digital terrestrial broadcasting (DVB-T) in the following countries. Digital terrestrial broadcasting (DVB-T) reception in other countries is not guaranteed.
Austria, Denmark, Finland, France, Germany, Italy, Netherlands, Spain, Sweden, Switzerland

- We may change the design and specifications without notice.

Remote control codes (P. 24) / Fernbedienungscode (S. 24) / Codes de télécommande (P. 24) / Codes afstandsbediening (pag. 24) / Códigos de mandos a distancia (P. 24) / Codici del telecomando (pag. 24) / Kaukosäätimen koodit (s. 24) / Fjernbetjeningskoder (s. 24) / Fjärrkontrollkoder (s. 24)

Cable Set Top Box / Kabeldigitalempfänger / Détecteur Set câblé / Detectorset met kabel /Descodificadores por cable / Decoder (interattivo) / Kaapeli-set-top box / Kabel Set Top Box / Kabel set-top-box

ADB	1230, 1269	Freebox	1482, 1976	Noos	0817	Scientific Atlanta	0477
Auna	1230	General Instrument	0276	NTL	0276, 1060, 1068	StarHub	0276
Austar	0276	HyperVision	0619	Ono	1068	Supercable	0276
Birmingham Cable Communications	0276	Jerrold	0276	Optus	0276	Tele Danmark	0619
		Macab	0817	Pace	1060, 1068, 1577	Telewest	1068
Cable & Wireless	1068	Madritel	1230	Philips	0619, 0817	Tudi	0619
Fosgate	0276	Motorola	0276	Sagem	0817	US Electronics	0276
France Telecom	0817	Nokia	1569	Samsung	1060, 1666	Visiopass	0817

Cable/PVR Combination / Kabel/PVR Kompination / Combinaison câble/PVR / Combinatie kabel/PVR / Combinación cable/PVR / Combinazione cavo/PVR / Kaapeli/PVR-yhdistelmä / Kabel/PVR kombination / Kabel/PVR-kombination

Freebox	1482, 1976	Nokia	1569

Satellite Set Top Box / Satellitdigitalempfänger / Détecteur Set satellite / Detectorset met satelliet / Codificadores por satélite / Decoder satellitare / Satelliitti-set-top box / Satelit Set Top Box / Satellit set-top-box

@sat	1300	AssCom	0853	BT	1296	Cyrus	0200
@Sky	1334	Aston	1261	Bubu Sat	0713	D-box	0723, 1114, 1127
ABsat	0713	Astra	0607, 0713	Bush	1284, 1645, 1672, 1743	Daewoo	0713, 1111, 1296, 1743
ADB	0642, 1367, 1418, 1473, 1491, 1259	Astratec	1743	Cambridge	0501	DAK	1993
		Astro	0173, 0501, 0607, 0613, 0658, 1099, 1100, 1113	Canal Digital	0853	Deltasat	1075
Akai	0200			Canal Satellite	0292, 0853, 1339, 1853	Digatron	1294
Akura	1705	Atsat	1300	Canal+	0853, 1339	Digenius	0299, 1161
Alba	0455, 0613, 0713, 1284, 1659	AtSky	1334	CGV	1413, 1567	Digiality	0607
		Audioline	1672	Cherokee	1480	Digifusion	1581, 1645, 1743
Allsat	0200	Audioton	0613	Chess	0114, 0713, 1334, 1626	Digihome	1284
Alltech	0713	Austar	0642, 1259	Chili	1718	DigiLogic	1284
Allvision	1232, 1334, 1412	Avalon	0396	CityCom	0299, 0607, 0818, 1075, 1176, 1232	DigiQuest	1300, 1457, 1473
Amitronica	0713	Axil	1457, 1659			DigiSat	1232
Ampere	0132, 0396	Axis	1111	Clark	0613	Digisky	1457
Amstrad	0132, 0396, 0501, 0713, 0847, 1113, 1175, 1693	B@ytronic	1412	Classic	1672	Dijam	1296
		Beko	0455	Clatronic	1413	DiPro	1367, 1543
Anglo	0713	Best Buy	1993	Clemens Kamphus	0396	DirecTV	0099
Ankaro	0713	Big Sat	1457	Cobra	0396	Discovery	1480
Anttron	0613	Black Diamond	1284	Colombia	0132	Distratel	1283, 1704, 1705
Apollo	0455	Blaupunkt	0173	Comag	0132, 1232, 1366, 1412, 1413, 1579	DMT	1075
Apro	1672	Blue Sky	0713			DNT	0200, 0396
Arcon	1075	Boca	0132, 0713, 1232, 1366	Condor	0607	Dream Multimedia	1237
Armstrong	0200	Boston	1251	Connexions	0396	Durabrand	1284
Arnion	1300	Brainwave	0658, 1294, 1672	Conrad	0132, 0501, 0607	Echostar	0167, 0396, 0455, 0610, 0713, 0853, 1200, 1323, 1409, 1418, 1473
Asat	0200	British Sky Broadcasting	0847, 1175, 1662	Coship	1457		
ASCI	0114, 1334	Broco	0713	Crown	1284		
ASLF	0713	BskyB	0847, 1175, 1662	Cryptovision	0455	Einhell	0132, 0501, 0713

Satellite Set Top Box / Satellitdigitalempfänger / Détecteur Set satellite / Detectorset met satelliet / Codificadores por satélite / Decoder satellitare / Satelliitti-set-top box / Satelit Set Top Box / Satellit set-top-box

Elap	0713, 1567
Elsat	0713
Elta	0200, 1659
Engel	0713, 1251
EP Sat	0455
Eurocrypt	0455
EuroLine	1251
Europa	0501, 0607
Europhon	0132, 0299, 0607
Eurosky	0114, 0132, 0299, 0501, 0607
Eurostar	0607, 0818
Eutelsat	0713
Exator	0613
Fenner	0713
Ferguson	0455, 1291, 1743
Fidelity	0501
Finlandia	0455
Finlux	0455
Flair Mate	0713
FMD	0114, 1251, 1413, 1457
Freecom	0501
FTEmaximal	0713
Fuba	0173, 0299, 0396, 1161, 1214, 1251
Galaxis	0853, 1111, 1557
Gardiner	0818
Garnet	1075
GbSAT	1214
Gecco	1273, 1412
General Satellite	1176
Globo	1251, 1334, 1412, 1429, 1626
GOD Digital	0200
Gold Box	0292, 0853
Golden Interstar	1283
Goodmans	0455, 1284, 1291, 1591, 1705
Granada	0455
Grandin	1626
Grundig	0173, 0847, 0853, 1284, 1291, 1330
Haensel & Gretel	0132
Hanseatic	1099, 1100
Hauppauge	1294, 1672
HB	1214
HDT	1159
Heliocom	0607
Helium	0607
Hirschmann	0173, 0299, 0396, 0501, 0607, 1111, 1232, 1412
Hitachi	0455, 1284
HNE	0132
Hornet	1300
Houston	0396
Humax	1176, 1427, 1675, 1743, 1788, 1808, 1915
Huth	0132, 0607, 1075
Hyundai	1075, 1159
iCan	1367
ID Digital	1176
ILLUSION sat	1557
Imperial	1334, 1429, 1672
Ingelen	0114, 0396
International	0132
Interstar	1214
Intervision	0607
ITT Nokia	0455, 0723
Jaeger	1334
K-SAT	0713
Kamm	0713
Kaon	1300
KaTelco	1111
Kathrein	0114, 0173, 0200, 0480, 0504, 0553, 0613, 0658, 0713, 0818, 1416, 1561, 1567
Kenwood	0853
Key West	0132
Kiton	0114
Konig	0607
KR	0613
Kreiling	0114, 0658, 1480
Kreiselmeyer	0173
Kyostar	0613
L&S Electronic	0132, 1334
Labgear	1296
LaSAT	0132, 0173, 0299, 0607
Legend	1718
Lemon	1334
Lenco	0607, 0713
Lenson	0501
LG	1075
Lifesat	0132, 0299, 0713
Listo	1626
Lodos	1284
Logik	1284
Logix	1075
Lorenzen	0132, 0299, 0607, 1161, 1294, 1579
Luxor	0501
M Electronic	0818
M vision	1557
Manata	0132, 0713
Manhattan	0455
Marantz	0200
Maspro	0173, 0713
Matsui	0173, 1284, 1591, 1743
Max	0607
Maxim	1705
Maximum	1075, 1334
Mediabox	0292, 0853
Mediacom	1206
MediaSat	0292, 0501, 0853, 1339
Medion	0132, 0299, 0713, 1075, 1232, 1334, 1412, 1626
Medison	0713
Mega	0200
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Ellion	1421	Loewe	0741	Schneider	0646	Yamaha	0646
Eltax	1321	Lumatron	1321	SEG	1530	Yukai	1730
Ferguson	1730	Luxor	1730	Sharp	1419		

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AEG	0790, 1923	Belson	1923	Centrum	1923, 1994	Finlux	0672
AFK	1923	Binatone	1923	Dantax	0790	Goodmans	0790, 1923, 2014
Akai	0790	Blue Sky	0790	Denon	0634, 1634	Grundig	1832
ASCOMTEC	1923	Bose	2023	Denver	1923	Grunkel	0790
Audiosonic	1923	Bush	1832	Digitech	1832	Hanseatic	0790
Basic Line	1994	Cat	1923	Dual	0779, 0790	HE	1923

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Hitachi	1835, 1994	Marquant	0770	Redstar	1923	Technics	1905
Hiteker	1923	MEI	0790	Roadstar	2014	Techwood	1994
Irradio	1233	Metz	1994	Samsung	1932	Tevion	1923, 2014
JVC	0623, 1701, 1860, 1863, 1940	Nikkai	1923	Sanyo	0670	Thomson	0522
		Norcent	1923	Schneider	0779, 0790	Tokai	0790
KXD	1923	Onkyo	0627	Scott	1923	Toshiba	2006
Lenoxx	2014	Palladium	0779, 1906	SEG	1994	United	1832
Lenoxx Sound	2014	Panasonic	1834, 1905, 1908	Sharp	2015, 2024	Universum	0779, 0790, 1913
LG	0790, 1906	Philips	1813	Sony	1824, 1934, 1981, 2020, 2132	Venturer	0790
Lumatron	1832	Pioneer	1965			Vestel	1994
Magnat	1923	ProVision	1923	Tandberg	1994	Wharfedale	0790, 1832
Magnum	2014	Radionette	1906, 2024	Targa	1906	Xenius	0790

TV/DVD Combination / TV/DVD Kombination / Combinaison TV/DVD / Combinatie TV/DVD / Combinación TV/DVD / Combinazione TV/DVD / TV/DVD-yhdistelmä / TV/DVD kombination / TV/DVD-kombination

Akura	1367	Elfunk	0713	Matsui	0713	Saivod	1367
Alba	0695	Ferguson	0695, 0713	Maxim	1367	Schneider	1367
Amstrad	1367	Goodmans	0713, 0879	Medion	0879	SEG	0713
Black Diamond	0713	Grandin	0713	Mirror	0879	Sliding	1115
Blue Sky	0713	Grundig	0539, 0695	Naiko	1367	Stevison	1367
Bush	0713, 0879, 1367	Hitachi	0713	Narita	1367	Technica	1367
Centrum	0713	JDV	1367	Neovia	1271	Thomson	0551
Crown	0713	Kotron	0879	Orion	0695	Toshiba	0695
D-Vision	1367	Logik	0713	Pacific	0695	United	0713, 1367
Daewoo	0870	Luker	1367	Philips	0539	Universum	0713
DMTech	1271	Luxor	0713	Roadstar	0879		

Amplifier / Verstärker / Amplificateur / Versterker / Amplificador / Amplificatore / Vahvistin / Forstærker / Förstärkare

Curtis Mathes	0300	Optimus	0300	RCA	0300	Yamaha	0848
Denon	0272	Pioneer	0300	Sony	0689		

Receiver / Empfänger / Récepteur / Ontvanger / Receptor / Ricevitore / Vastaanotin / Modtager / Mottagare

AEG	1389, 1390	Bang & Olufsen	0799	Cosmotron	0797	Fine Arts	1189
AFK	1389	Basic Line	1554	Dantax	1390	Genexxa	0186
Aiwa	0121, 1189, 1269, 1405	Belson	1389	Denon	1104, 1360	Goodmans	0609, 0744, 0797, 1389, 1390, 1420, 1611
Akai	0609, 1390	Binatone	1389	Denver	1389		
All-Tel	1390	Blue Sky	1390	Digitech	1772	Grundig	0797, 1089, 1189, 1344, 1772
Amstrad	0744	Bose	1229, 1355, 1933	DiK	0797		
Anam	0609	Bush	0797, 1772	DK Digital	1420	Grunkel	0744, 1390
ASCOMTEC	1389	Cat	1389	Dual	1220, 1390, 1420	Hanseatic	1390
Audiolab	1189	CCE	1352	eBench	0744, 0797	Harman/Kardon	1189, 1304, 1310
Audiosonic	1389	Centrum	1220, 1389	Elta	0744, 0797, 1390	Harwood	0744
Audiotronic	1189	Clatronic	0797	Ferguson	1154	HCM	1390

HE	1389
Hitachi	1344, 1554, 1801
Hitech	0744
Hiteker	1389
Intersound	0744
JVC	2000, 2001, 0074, 1374, 1676
Kenwood	0186, 1027, 1313
Kioto	0797
Kompernass	0797
KXD	1389
Lenoxx	1611
Lenoxx Sound	1611
LG	1293, 1869
Lifetec	0797
Lumatron	1772
LXI	0744
Magnat	1389
Magnavox	1089, 1189
Magnum	1611
Marantz	1089, 1189, 1269, 1289
Matsui	0744, 0797
MBO	1352
Medion	0797, 1420
MEI	1390
Metz	1554
Micromaxx	1420

Micromega	1189
Microstar	0797
Musicmagic	1089
Mustek	1352
Mx Onda	0744, 0797
Myryad	1189
NAD	0320, 0609
Nikkai	1389
Nikkei	0744
Norcent	1389
NTDE Geniesom	0744
Onkyo	0135, 1320
Optimus	0186, 0744, 1023
Orient Power	0744
Palladium	0797, 1220, 1293, 1344, 1390
Panasonic	1308, 1309, 1316, 1518, 1763, 1765, 1779
Philips	1089, 1189, 1269, 1289, 1673
Pioneer	0186, 1023, 1459, 1623
Prima Electronic	0797
Proline	0797, 1390
ProVision	1389
QONIX	1420
Radionette	1293, 1634
RCA	1154

Recco	0797
Redstar	1389
Revox	0186, 1089
Roadstar	0797, 1611
Samsung	1295
Sansui	0609, 1089
Sanyo	0744, 1801
Schneider	0744, 1220, 1390
Scott	1389
SEG	1554
Sharp	0186, 0653, 1614, 1634
Sherwood	0653
Siemens	0609
Silva Schneider	1390
Sony	1058, 1112, 1158, 1258, 1441, 1454, 1658, 1722, 1758, 1759, 1822, 1858, 1882
Soundwave	0609
Stereophonics	1023
Sumida	0744
Sunfire	1313
Sunstech	1420
TAG McLaren	1189
Tandberg	1554
Targa	1293
TCM	0797

Teac	0609
Technics	1308, 1309, 1518, 1763, 1765
Techwood	1554
Tevion	1389, 1611
Thomson	1154, 1354
Thorens	1189
Thorn	0744
Tokai	1390
Toshiba	1572
United	1390, 1772
Universum	0609, 0744, 0797, 1220, 1390, 1609
Venturer	0797, 1390
Vestel	1554
Victor	0074
Waitec	1352
Watson	0797
Welltech	0797
Wharfedale	1390, 1772
Xenius	1390
Yamaha	0176, 0186, 0712, 1276, 1331, 1949
Yukai	1352
Zenith	0744

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AEG	1389, 1390
AFK	1389
Akai	1390
All-Tel	1390
ASCOMTEC	1389
Audiosonic	1389
Basic Line	1554
Belson	1389
Binatone	1389
Blue Sky	1390
Bose	1229, 1933
Bush	1772
Cat	1389
CCE	1352
Centrum	1389
Dantax	1390
Denver	1389

Digitech	1772
DK Digital	1420
Dual	1220, 1390, 1420
Elta	1390
Goodmans	1389, 1390, 1420, 1611
Grundig	1344, 1772
Grunkel	1390
Hanseatic	1390
HCM	1390
HE	1389
Hitachi	1344, 1554, 1801
Hiteker	1389
JVC	2000, 2001, 0074, 1374, 1676
Kenwood	1313
KXD	1389
Lenoxx	1611

Lenoxx Sound	1611
LG	1293, 1869
Lumatron	1772
Magnat	1389
Magnum	1611
MBO	1352
Medion	1420
MEI	1390
Metz	1554
Micromaxx	1420
Mustek	1352
NAD	0609
Nikkai	1389
Norcent	1389
Onkyo	0135
Palladium	1220, 1293, 1344, 1390
Panasonic	1316, 1763, 1765, 1779

Philips	1269, 1673
Pioneer	1459
Proline	1390
ProVision	1389
QONIX	1420
Radionette	1293, 1634
Redstar	1389
Roadstar	1611
Samsung	1295
Sanyo	1801
Schneider	1220, 1390
Scott	1389
SEG	1554
Sharp	1614, 1634
Silva Schneider	1390
Sony	1454, 1658, 1758, 1822, 1858, 1882

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Sunstech	1420
Tandberg	1554
Targa	1293
Technics	1763, 1765
Techwood	1554

Tevion	1389, 1611
Tokai	1390
Toshiba	1572
United	1390, 1772
Universum	1220, 1390, 1609

Venturer	1390
Vestel	1554
Waitec	1352
Wharfedale	1390, 1772
Xenius	1390

Yamaha	0712, 1331
Yukai	1352

JVC

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